

UNITED STATE DEPARTMENT OF COMMERCE United Stat's Patent and Trademark Offic

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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO.

09/336,687

06/21/99

YOKOGAWA

K

500.37328X00

020457 IM22/0703 ANTONELLI TERRY STOUT AND KRAUS SUITE 1800 1300 NORTH SEVENTEENTH STREET ARLINGTON VA 22209

ALEJANDRO MULERO, L ARTUNIT PAPER NUMBER

EXAMINER

1763 DATE MAILED:

07/03/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

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		Application N .	Applicant(s)
	Offic Action Summary	09/336,687	YOKOGAWA ET AL.
omo Addon Gammary		Examiner	Art Unit
		Luz L. Alejandro	1763
The MAILING DATE of this c mmunication app ars on the cover she t with th correspondence address Period for Reply			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status			
1)🖂	Responsive to communication(s) filed on 04.	June 2001 .	
2a)[This action is FINAL . 2b)⊠ Th	nis actìon is non-final.	
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.		
Disposition of Claims			
4)⊠ Claim(s) 1-12,14-34 and 36-54 is/are pending in the application.			
4a) Of the above claim(s) 30,37-49 and 54 is/are withdrawn from consideration.			
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-12, 14-29, 31-34, 36, 50-53</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claims are subject to restriction and/or election requirement.			
Application Papers			
9) The specification is objected to by the Examiner.			
10) The drawing(s) filed on is/are objected to by the Examiner.			
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved.			
12) The oath or declaration is objected to by the Examiner.			
Priority under 35 U.S.C. § 119			
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).			
a)			
1. Certified copies of the priority documents have been received.			
2. Certified copies of the priority documents have been received in Application No			
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 			
14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).			
Attachment(s)			
15) Notice of References Cited (PTO-892) 18) Interview Summary (PTO-413) Paper No(s) 16) Notice of Draftsperson's Patent Drawing Review (PTO-948) 17) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 20) Other:			

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 33 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The phrase "i.e. " in claim 33, renders the claim indefinite because it is unclear whether the limitation(s) following the phrase are part of the claimed invention. See MPEP § 2173.05(d).

Drawings

The proposed drawing correction and/or the proposed substitute sheets of drawings, filed on 6-4-01 have been approved.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of

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the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-8, 10-12, 14-29, 31-34, 36 and 50-53 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yokogawa et al., U.S. Patent 5,891,252 in view of Singh et al., U.S. Patent 6,042,687.

Yokogawa et al. is applied as in the rejection of claims 1-6, 8, 10-12, 21-22, 24-29, 32, 34 and 50-53 in paper #6 mailed 1-3-01 but lacks anticipation of showing the claimed ring-shaped member. Singh et al. discloses a ring-shaped member 172 disposed in a periphery of the substrate 120 (see Figure 3 and column 4, lines 39-52). In view of this disclosure, it would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize the ring-shaped member in the primary reference of Yokogawa et al. to improve the plasma uniformity (see abstract). In addition, regarding the taking of official notice to show control means, Figure 16, for example, of U.S. Patent 6,068,784 shows using a controller 86 used to automate a plasma apparatus.

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Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yokogawa et al., U.S. Patent 5,891,252 in view of Singh et al., U.S. Patent 6,042,687 as applied to claims 1-8, 10-12, 14-29, 31-34, 36 and 50-53 above, and further in view of Gupta et al., U.S. Patent 5,902,494.

Yokogawa et al. and Singh et al. are applied as above but lack anticipation of showing a planar plate including a plurality of holes through which the material gas is supplied.

Gupta et al. is applied with respect to claim 9 in the paper mailed 1-3-01 for the reasons of record.

Response to Arguments

Applicant's arguments with respect to all of the claims have been considered but are most in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Luz L. Alejandro whose telephone number is 305-4545. The examiner can normally be reached on Monday to Thursday from 8:30 to 6:00 and alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory Mills can be reached on 308-1633. The fax phone numbers for the

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organization where this application or proceeding is assigned are 305-3599 for regular communications and 305-3599 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 308-0661.

LLAM

June 29, 2001

GRÉGÓRY MILLS SUPERVISORY PATENT EXAMINER TECHNOLOGY GENTER 1700